

07/967267

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TRANSMITTAL FORM SEP 22 2006 (to be used for all correspondence after initial filing)	Patent Number	7,101,993	
	Issue Date	09/05/2006	
	First Named Inventor	Phillip Dan Cook	
	Title	OLIGONUCLEOTIDES CONTAINING 2'-O-MODIFIED PURINES	
Total Number of Pages in This Submission	7	Attorney Docket Number	ISIS-0710

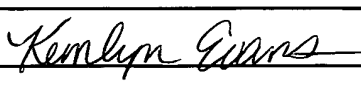
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Remarks		

Certificate
 SEP 26 2006
of Correction

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Isis Pharmaceuticals, Inc.		
Signature			
Printed name	Herb Boswell		
Date	9/19/2006	Reg. No.	27,311

CERTIFICATE OF TRANSMISSION/MAILING

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SEP 27 2006

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 6

PATENT NO. : 7,101,993
APPLICATION NO.: 07/967,267
ISSUE DATE : 09/05/2006
INVENTOR(S) : Phillip Dan Cook

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

1) Title Page:

Item [63], Related U.S. Application Data, please delete

"Continuation-in-part of application No. 07/918,362, filed on Jul. 23, 1992, now Pat. No. 5,506,351, which is a continuation-in-part of application No. 07/463,358, filed on Jan. 11, 1990, now abandoned, which is a continuation-in-part of application No. 07/566,977, filed on Aug. 13, 1990, now abandoned"

and insert therefore

--Continuation-in-part of application No. 07/918,362, filed on Jul. 23, 1992, now Pat. No. 5,506,351, and application No. PCT/US91/00243, filed on Jan. 11, 1991, which is a continuation-in-part of application No. 07/566,977, filed on Aug. 13, 1990, now abandoned, and application No. 07/463,358, filed on Jan. 11, 1990, now abandoned--;

2) Page 2, OTHER PUBLICATION, "Robins" reference, please delete "2-aminoaldenosine" and insert therefore --2-aminoadenosine--;

3) Column 1, line 8, please insert --and Ser. No. US91/00243 filed on Jan, 11, 1991-- between "5,506,351" and "which";

4) Column 2, line 19, please delete "2-O-alkylated" and insert therefore --2'-O-alkylated--;

5) Column 5, line 22, please delete " .";

6) Column 9, line 5, please delete "NH₂" and insert therefore --NH₂--;

7) Column 9, line 5, please delete "(2NH₂" and insert therefore --(2NH₂--;

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Carlsbad, CA 92008

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Page 2 of 6

PATENT NO. : 7,101,993
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ISSUE DATE : 09/05/2006
INVENTOR(S) : Phillip Dan Cook

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

8) Column 9, line 8, please delete "N,N-diisopropylaminochlorophosphine" and insert therefore --N,N-diisopropyl aminochlorophosphine--;

9) Column 11, line 1, please delete "similarly" and insert therefore --Similarly--;

10) Column 13, line 44, please delete " $C_{13}H_{20}N_6O_4 \cdot \frac{1}{2}H_2O$:" and insert therefore -- $C_{13}H_{20}N_6O_4 \cdot \frac{1}{2}H_2O$ --;

11) Column 13, line 47, please delete "B";

12) Column 14, line 6, please delete "O-CH₂)" and insert therefore --O-CH₂)--;

13) Column 14, line 34, please delete " $C_{17}H_{25}N_5O_6 \cdot \frac{1}{2}H_2O$:" and insert therefore -- $C_{17}H_{25}N_5O_6 \cdot \frac{1}{2}H_2O$ --;

14) Column 14, line 48, please delete "CH₂Cl₂/2xdil" and insert therefore --CH₂Cl₂/2x dil--;

15) Column 14, line 57, please delete " $C_{38}H_{42}N_5O_8 \cdot H_2O$:" and insert therefore -- $C_{38}H_{42}N_5O_8 \cdot H_2O$ --;

16) Column 16, line 26, please delete " $C_{40}H_{47}N_5O_8 \cdot \frac{1}{2}H_2O$:" and insert therefore -- $C_{40}H_{47}N_5O_8 \cdot \frac{1}{2}H_2O$ --;

17) Column 17, line 12, please delete "3'-OH5'-OH" and insert therefore --3'-OH 5'-OH--;

18) Column 17, line 30, please delete "C2" and insert therefore --C₂--;

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PATENT NO. : 7,101,993
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INVENTOR(S) : Phillip Dan Cook

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- 19) Column 18, line 9, please delete "1 H" and insert therefore --¹H--;
- 20) Column 18, line 20, please delete "D-ribo-furanosyl" and insert therefore --D-ribofuranosyl--;
- 21) Column 19, line 57, please delete "3'-OH)" and insert therefore --3'-OH)--;
- 22) Column 19, line 59, please delete "C₂₁H₂₂N₆O₇·½H₂O: " and insert therefore --C₂₁H₂₂N₆O₇·½H₂O:--;
- 23) Column 20, line 9, please delete "C₂₅H₂₈N₆O₈·½H₂O: " and insert therefore --C₂₅H₂₈N₆O₈·½H₂O:--;
- 24) Column 20, line 15, please delete "phthalimido)propylguanosine" and insert therefore --phthalimido)propylguanosine--;
- 25) Column 20, line 29, please delete "C₄₆H₄₆N₆O₁₀·H₂O: " and insert therefore --C₄₆H₄₆N₆O₁₀·H₂O:--;
- 26) Column 20, line 45, please delete "N2-Dimethylaminomethylidene-5=-" and insert therefore --N2-Dimethylaminomethylidene-5'---;
- 27) Column 20, line 53, please delete "1xwith" and insert therefore --1x with--;
- 28) Column 20, line 65, please delete "C₄₅H₄₅N₇O₉·½H₂O: " and insert therefore --C₄₅H₄₅N₇O₉·½H₂O:--;

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PATENT NO. : 7,101,993
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ISSUE DATE : 09/05/2006
INVENTOR(S) : Phillip Dan Cook

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29) Column 21, line 60, please delete " $C_{23}H_{26}N_6O_7 \cdot \frac{1}{2}H_2O$:" and insert therefore
-- $C_{23}H_{26}N_6O_7 \cdot \frac{1}{2}H_2O$ --;

30) Column 22, line 3, please delete "2xwith" and insert therefore --2x with--;

31) Column 22, line 11, please delete " $C_{27}H_{32}N_6O_8 \cdot \frac{1}{2}H_2O$:" and insert therefore
-- $C_{27}H_{32}N_6O_8 \cdot \frac{1}{2}H_2O$ --;

32) Column 22, line 31, please delete " $C_{48}H_{50}N_6O_{10} \cdot \frac{1}{2}H_2O$:" and insert therefore
-- $C_{48}H_{50}N_6O_{10} \cdot \frac{1}{2}H_2O$ --;

33) Column 22, line 39, please delete "2,6-diamino-9-(\square -D-ribo-furanosyl)" and insert therefore
--2,6-diamino-9-(\square -D-ribofuranosyl)--;

34) Column 22, line 48, please delete " $C_{22}H_{40}N_6O_5Si_2 \cdot \frac{1}{2}H_2O$:" and insert therefore
-- $C_{22}H_{40}N_6O_5Si_2 \cdot \frac{1}{2}H_2O$ --;

35) Column 23, line 16, please delete " $C_{11}H_{16}N_6O_4 \cdot \frac{1}{2}H_2O$:" and insert therefore
-- $C_{11}H_{16}N_6O_4 \cdot \frac{1}{2}H_2O$ --;

36) Column 23, line 34, please delete " $C_{11}H_{15}N_5O_5 \cdot \frac{1}{2}H_2O$:" and insert therefore
-- $C_{11}H_{15}N_5O_5 \cdot \frac{1}{2}H_2O$ --;

37) Column 23, line 50, please delete " $CH(CH_3)_2$ " and insert therefore -- $CH(CH_3)_2$ --;

38) Column 24, line 6, please delete "N2-Isobutyryl-5'-dimethoxytrityl-2'-O-methyl-guanosine" and insert therefore --N2-Isobutyryl-5'-dimethoxytrityl-2'-O-methylguanosine--;

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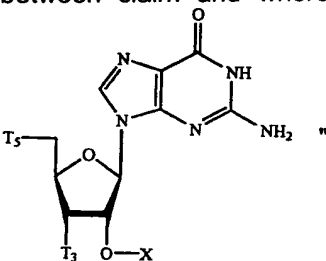
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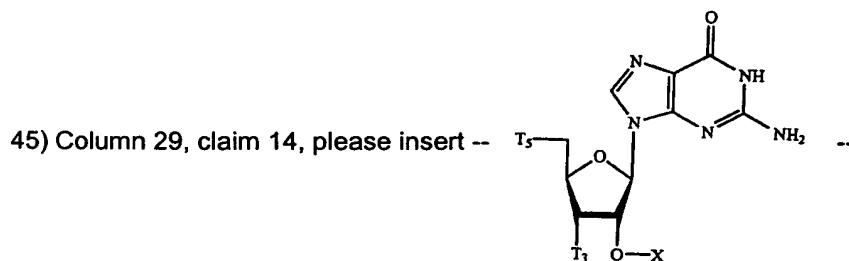
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PATENT NO. : 7,101,993
APPLICATION NO.: 07/967,267
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between "structure: " and "wherein".

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